

K6YQT

PAARA NEWSLETTER
VOLUME 51 NUMBER 11, November 2002

W6OTX



PAARAgraphs

Celebrating 65 years as an active ham radio club—Since 1937
Newsletter for the Palo Alto Amateur Radio Association, Inc.



CALENDAR

- November...1, **PAARA Meeting**, 7:30
Menlo Park Recreation Center
700 Alma Street, Menlo Park
- November...6, **PAARA Board Meeting**, 7:30
Red Cross Bld., 400 Mitchell Ln., Palo Alto
- December...6, **PAARA Meeting**, 7:30
- December...11, **PAARA Board Meeting**, 7:30
- January.....3, **PAARA Meeting**, 7:30
- January.....8, **PAARA Board Meeting**, 7:30
The ARRL has a code practice:
URL <http://www.pcpractice.com/CW/>
-Don KF6JMQ



PROGRAM

November 1, 2002 7:30 P.M

Speaker:

Dave Platt, AE6EO

**"Wireless Networking on 2.4 Ghz
with 802.11
also known as WiFi"**

Join us for pre-meeting eyeball
at Su Hong Restaurant, 1039 El Camino Real, Menlo Park
Food will be served at 6:00 sharp, so guests will be on time for the PAARA
meeting. Those arriving late will be responsible for their own order and bill.

—PAARA Radio NET every Monday evening at 8:30 P.M., local time—
on the 145.230 -600 MHz repeater, PL tone off

Dear friends and family,

It is with great sadness that we inform you of the death of our father, **Charles Grandjean IV (WD6FAF)** from complications of heart disease, Sunday October 6, 2002 at 9:05 P.M. Hawaiian standard time. This is a very sad time for us but we are comforted knowing he loved his life, treasured the time he spent with friends and family, and always took the opportunity to learn about and experience the world.

Fondly,

Suzanne Grandjean,
Kramer Andrew Grandjean
Nanette Grandjean Sciulli

(see page 99)



WD6FAF
Charlie
Grandjean

off to
Hawaii

Famous last words:

*"Come on over,
I'll have an extra
bedroom"*



Miscellaneous Dates

ELECTRONIC FLEA MARKET @ Foothill College
Perham Foundation Sponsorship 408/734-4453, 408/736-2685 fax
 Second Saturday of month, March-October, 6 AM-2PM

PAARA Palo Alto Amateur Radio Association
 meets 1st Friday 7:30 each month, Net 145.230 each Monday 8:30,
 contact: Andreas Junge N6NU.....(650) 233 0843

FARS Foothills Amateur Radio Society
 meets 4th Friday 7:30 each month,
 contact: Sheldon Edelman N6RD, 650 493 7212, n6rd@earthlink.net

NCDXC Northern California DX Club
 meets 2nd Friday 7:30 each month, repeater for member info 147.360, Thur 8:00PM,
 contact: Bob Mammarella KB6FEC 408 729 1544

NorCalQRP Northern California QRP Club
 meets 1st Sunday each month,
 contact: Jim Cates 3241 Eastwood Rd., Sacramento, CA 95821.

Perham Foundation,
 contact: (408) 734 4453,

SPECS Southern Peninsula Emergency Communication System
 meets each Monday 8:00PM on Net 145.27, 440.80 MHz, www.specsnet.org
 contact: Tom Cascone, KF6LWZ, 650-688-0441 specs@sympal.org

SCARES South County Amateur Radio Emergency Service
 meets 3rd Thursday 7:30 each month, San Carlos City Hall.
 Net is on 146.445 [PL 114.8] & 444.50 (PL-100) 7:30 Monday evenings.
 contact:

SCCARA Santa Clara County Amateur Radio Association
 Operates W6UU repeater 146.385+ Nets: 2m, W6UU, 7:30 Mon; 10m,
 28.385, 8:00 Thur. meets 2nd Mon each month.
 contact: Barbara Britten, KD6QE1 at 293-3847

SVECS Silicon Valley Emergency Communications
 Operates WB6ADZ repeater (146.115 MHz+)
 contact: Lou Stierer WA6QYS 408 241 7999

WVARA West Valley Amateur Radio Association
 operates W6PIY repeater 147.39+, 223.96, 441.875, 1286.2
 meets 3rd Wed every month.
 contact: Glen Lokke Jr. KE6NBO at 408 971 8626, or glokke@pacbell.net

Disaster Services,

PALO ALTO CHAPTER, American Red Cross, www.paarc.org
 400 Mitchell Lane
 Meets 3rd Wed. each month 7:30PM,
 HF, packet, BBS, ATV, OSCAR Gateway, NASA satellite
 contact: Mac Millian 650-688-0423. MACM@paarc.org

SAN JOSE CHAPTER, American Red Cross
 contact: Scott Hensley KB6UOO, (408) 967 7924, FSHENSLEY@NOVELL.COM

VE Exams, 3rd Saturday each month, 10:30AM, 145.23- PL=100Hz
 Redwood City Main Library, Community Conference Room
 1044 Middlefield Road, Redwood City, CA
 contact: Al WB6IMX@att.net

Swap meet, LosPositas College, Livermore, 1st Sunday each month.
 Contact: Cliff Kibbe (209) 835 6715 or Eliot Ross (925) 606 7710

(please send changes to PAARAgaphs editor: k6uro@arrl.net)

Instructions on how to subscribe to PAARA mailing list

Here are the steps in the long form:

- 1) go to <http://mailman.qth.net/>
- 2) click on: "To Subscribe to Lists Click Here!"
- 3) Find PAARA on list and click on it
- 4) enter your email address and pick a password
- 5) hit the "Subscribe" button

The short form of the instructions are:

- 1) go to <http://mailman.qth.net/> and follow the instructions.

Andreas, N6NU

Palo Alto Amateur Radio Association, Inc. PO Box 911 Menlo Park, CA 94026

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k6ak@arrl.net
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hagenees@att.net
 (Joel Wilhite, KA7TXV resigned 5 8 02 '03)

(see "Calendar" for Board meeting times, visitors welcome)

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Submit material for PAARAgaphs by the 15th
 Use WORD, rich text, ascii, .pub, .ps, or .jpg,
PAARA Website: www.paara.org

NEW PAARA WEB

Thanks to **Andreas Junge, N6NU**
 and
Curt Kolovson, AE6EJ, Webmaster
 PAARA has a new web site. Check it out.

www.paara.org



Soap Box Observations

by Jay Melvin, WA6SBO@ARRL.NET

SILENT KEY

Charlie Grandjean, WD6FAF, reminds me of the most beautiful and lovable aspect of Amateur Radio. Membership in our community, historically called a fraternity, endows us with clanship. I knew that Ole Man only briefly and had perhaps three conversations with him each lasting some five minutes but still he is missed and his ongoing contributions to our hobby are now wanting.

His running of the PAARA net last month was quite impressive and especially serendipitous following my recent essay on IRLP. Charlie was operating via his local repeater near his new QTH in Hawaii and the rest of the net members were here in the SF Bay area. No doubt all were using QRP practicing new high tech and developing expertise in Emergency Communications traffic handling in public service.

When one ham meets another ham for the first time it often seems that a permanent and endearing relationship already exists. Supposedly that love of radio is shared and spills over to those others of us similarly disposed since I've repeatedly experienced this camaraderie and rapport. So it was with Charlie.

Our first QSO was by eyeball at the PAARA club and we fell into conversation just like two old friends who had years of catching up to do on our numerous common interests. My XYL often teases me about how my ham friends and I are always talking about antennas and vacuum tubes, transmission lines and not much else. True. That's what he and I talked about with our common jargon and familiar references. We knew what was meant when we decided to meet again over an '807 (a beer referred to by a vacuum tube's bottle sized envelope) and chew the fat. That's what I'd like to do with Charlie again. SK



The Mahatma's Hams

Owen Williamson, AC5OE,
from QRZ

Few present-day radio amateurs know about the essential contribution made by two Amateur Radio operators, "Bob" Tanna, VU2LK, and Nariman Abarbad Printer, VU2FU, who risked their own personal safety and freedom to help Mahatma Gandhi win India's struggle for independence. While Gandhi's life and work have long been admired in America and around the world, almost nothing has yet been published about the important role Amateur Radio operators played at a crucial moment in his struggle. Since his death in 1947, Gandhi's philosophy of homespun self-reliance has often been espoused

by those who mistrust high technology. However, when Gandhian leaders were being jailed and shut out of the media, it was Ham operators who stepped forward and offered their expertise with the highest available technology of the day to provide crucial radio communications equipment and know-how for the Mahatma's nonviolent freedom movement.

At the outbreak of World War II in Europe in 1939, all Amateur Radio licenses were suspended "for the duration" throughout the British Empire. In that era, India had less than fifty licensed amateur operators, the majority British nationals involved with the colonial administration. All received written orders to turn in their transmitting equipment to the police, both for possible use in the war effort and to prevent transmitters from falling into the hands of Axis collaborators and spies.

However, Tanna, the owner and operator of Bombay's Tanna Radio Acoustics, and Printer, a freelance inventor and Principal of a Bombay technical institute, opted to hide or disassemble their rigs rather than turn them in to British colonial authorities. Printer later claimed in court that he intended to use the components of his transmitter for classroom teaching purposes only. Tanna, an active member of Bombay's nonviolent Gandhian underground, found a more immediate and urgent use for his equipment: working for the freedom of his country.

By the time of the Second World War, British imperial rule over India was thoroughly unpopular, and its future prospects after the war were in serious question. From the first outbreak of hostilities, Gandhi and his leadership were determined to take every possible advantage of world events to promote Indian independence and neutrality from both Allies and Axis. In 1940, young Tanna spontaneously seized the spirit of the moment to put "Azad Hind Radio" (Free India Radio) on the air, briefly using his 40-meter AM transmitter to broadcast Gandhian protest music and uncensored economic news from his former Ham shack, loading his wife's clothesline as an antenna. However, he was quickly arrested, briefly jailed, and his transmitting equipment seized.

In mid-1942, the situation facing the British in India had become critical, with domestic popular discontent at a boiling-point, and Japanese air-raids battering the deep-water port of Chittagong and elsewhere along India's eastern border. A land- or sea-based invasion of the Indian subcontinent was now an imminent military threat. On the home front, a dissident faction of Gandhi's movement had broken with the Mahatma and his nonviolent philosophy, and was engaged in active material sabotage against the British "raj," cutting phone and telegraph lines, stoning troop-trains, and pulling up railway tracks.

One popular former Gandhian leader, "Netaji" Subhash Chandra Bose, had even gone to Berlin, and there received Adolph Hitler's help to establish a totally different, Axis-sponsored "Radio Azad Hind" network, which bombarded India with violent anti-British propaganda from Nazi Germany, Imperial Japan, and Japanese-held Singapore, Ran-

(Mahatma Continued on page 100)

(Mahatma Continued from page 99)

goon and Saigon. Within India, popular support for "Netaji" (Hindi for "the dear Fuehrer") was growing. Under his command, a puppet "Free Indian Army" was being recruited and trained in Japanese-occupied Southeast Asia, and would soon join Imperial Japanese forces in a joint attack on British India's remote and vulnerable northeastern Manipur front.

On 9 August 1942, after Gandhi's "Quit India" campaign brought yet another strong wave of nonviolent pro-independence protest, frantic British colonial authorities ordered sweeping arrests, including that of Mahatma Gandhi himself and his top leadership. All news of the Indian National Congress (Gandhi's umbrella-organization) was summarily banned from India's press and (state-monopoly) broadcast media. Gandhian activists who remained free saw a real danger that their movement could soon end up splintered and derailed into violent anarchy and terror, or else fall by default into the Axis orbit, unless something was done quickly to reestablish broken communication links between underground Congress leadership and the movement's grassroots supporters.

In Bombay, clandestine Congress leader Vitalbhai Javeri and student activist Usha Mehta decided to secretly sound out the few ethnic Indians in the Bombay area who were Amateur Radio operators, among them Tanna and Printer, with a view toward establishing an underground Gandhian broadcasting station. Both Hams readily agreed, but Tanna was immediately betrayed to colonial authorities by a still-unidentified, pro-British radio engineer, whom he had quietly approached to construct the transmitter. On 31 October 1942, a fully-working HF transmitter was delivered to Tanna, but only to serve as "bait" in a British sting-operation. The Tanna family home was searched, unearthing two old, non-working UHF transceivers, and Tanna was promptly re-arrested and charged with possession of wireless telegraphy apparatus. He was held briefly, but then set free on bail.

Printer, who a colonial judge later described "a mainstay of the conspiracy," succeeded in reconstructing his old homebrew 40-meter amateur transmitter, after replacing several parts including a microphone. Though not a member of the Gandhian movement, he immediately agreed to sell the working transmitter, a 50-watt AM unit with microphone and "electrically driven gramophone pick-up," to activists. This was to become "Congress Radio," which began broadcasting 2 September 1942 on 7.12 MHz. With Printer's ongoing technical assistance, the station broadcast messages of non-violent resistance at 8:30 a.m. and 8:45 p.m. daily through the high point of Mahatma Gandhi's "Quit India Movement," in October, and November of 1942.

Despite sporadic British jamming, the crystal-controlled signal of Congress Radio was audible on the then-unoccupied 40-meter band throughout the Indian subcontinent, and as far away as Japanese-occupied Burma. The station transmitted recordings of the Mahatma's sermons and his calls for nonviolence, uncensored news, pro-

independence music, instructions for Gandhian activists, and political declarations by the movement's underground leadership. For security, programs were recorded on 78 rpm disks at a remote location and then played at the transmitting site, which was shifted randomly between apartments rented for the purpose in different areas of Bombay. Leaflets were secretly distributed by neighborhood-level Congress activists, with times and frequencies of transmissions.

The station was detected by colonial authorities almost immediately, and Printer and the Gandhian activists involved with the clandestine broadcasts had several "close calls" when British direction-finders nearly succeeded in triangulating the location of the transmitter. On 11 November 1942, Tanna and one of his employees were arrested once again, even though no evidence could be found to directly connect them to the clandestine Congress Radio broadcasts. On November 12, Printer was arrested, and subsequently agreed to cooperate fully with colonial authorities.

It is unclear what caused his sudden change of heart, but court documents of the time show that Printer was heavily in debt, and may have been threatened with serious fraud charges connected with alleged mismanagement of his technical school. In a 1988 interview with German journalist Peter Ruhe, former Congress Radio announcer Usha Mehta suggested she still strongly lamented Printer's "betrayal," even though contemporary court records show that his cooperation with prosecutors, though complete, may not have been fully voluntary. Other Congress Radio defendants allegedly received harsh treatment at the hands of colonial jailers (including being forced to sleep lightly-clothed on blocks of ice), so Printer's decision to turn "Crown's evidence" may have been extracted by external factors.

On 12 November 1942, Printer led colonial police to Javeri's office, where the underground Gandhian leader was arrested, and later to the Congress Radio transmitting site, where Mehta and another nonviolent activist were also taken into custody. On 14 May 1943, after a secret trial in a "Special Court," Mehta was sentenced by a "Special Judge" to five years "rigorous imprisonment." Two other Congress Radio defendants were sentenced to shorter prison terms, while Javeri was acquitted, thanks to strong efforts by his defense attorney. Prosecution efforts to link Tanna to Congress Radio were unsuccessful, and he also walked free.

Nariman Printer was offered and accepted full immunity from prosecution in return for his testimony for the Crown. Printer dropped from sight after the Congress Radio trial, and his expired call sign, VU2FU, was re-issued to a different Indian amateur operator after the war. Today, even elder members of Bombay's small and tightly-knit Parsi community, to which Printer belonged, profess to remember neither his name nor his story, and no further records of his life or activities after 1943 have been located.

Usha Mehta was freed, along with all other Gandhian activists convicted of pro-independence activities, when independent India finally achieved its freedom in 1947. She later

(Mahatma Continued on page 101)

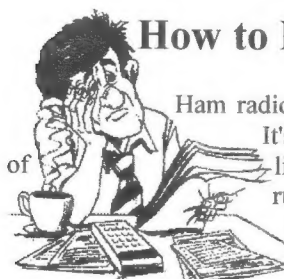
(Mahatma Continued from page 100)

earned her PhD, and received numerous honors as a national hero and noted Gandhian scholar. She passed away from natural causes on 11 August 2000.

After independence, Bob (as he is still known on the air), VU2LK, was once again licensed as an Amateur Radio operator. He received official recognition as a nonviolent Freedom Fighter and was named a national hero for his underground radio work in the Gandhian movement. As of this writing he is, at 86 years of age, the oldest active licensed radio amateur in India (and one of the most honored). He is currently in seclusion following the death of his beloved wife of 67 years, but he has not given up on either Ham radio or the ideals that led him to risk his life and freedom a half-century ago, when he offered his technical know-how to aid the Mahatma's nonviolent struggle for his country's freedom.

Sources Consulted:

- Congress Radio. Audio Cassette set. Berlin: GandhiServe, [n.d.] JNA Wireless Association. <<http://members.tripod.com/~VU2JNA/>> 30 January 2001.
- Mehta, Usha. "Congress Radio Calling." Reminiscences of the Freedom Movement. Presented to the Honorable Prime Minister Shri Rajiv Gandhi, to Commemorate 100 Years of the Indian National Congress. [N.P.]: [n.p.], [1992].
- Printer, Mehernosh. Private e-mail communications to author.
- Ruhe, Peter. Talk with Dr. Usha Mehta, December 17, '1988. Audio cassette. Berlin: GandhiServe, 1988.
- Sengupta, Syamalendu, and Gautam Chatterjee. Secret Congress Broadcasts and Storming Railway Tracks. New Delhi: Navrang, 1988.
- Tanna, Bhavsinh Morarji. VU2LK Private e-mail communications to author.
- Venkatraman, Mohini. VU2KMV Private telephone communication to author.
- Venkatraman, P. VU3PVN Private e-mail



How to Become a Ham

from QRZ

Ham radio is *the* premier high-tech hobby. It's enjoyed by people from all walks of life from around the world. The rules for becoming an amateur (ham) radio operator vary from country to country around the world. On this page we're going to tell you a little about the hobby and how you can obtain the necessary license to operate in the United States.

It's never been so easy to get into ham radio. All ham radio operators must be *licensed* before they can legally operate. This differs a great deal from the CB (i.e. truckers) and FRS (i.e. dimestore walkie-talkie) services which require no licenses.

Amateur radio operators must be licensed because they are given transmitting privileges on a wide variety of frequencies and are allowed to use just about any equipment imaginable,

even home built radios. Amateurs are allotted not single specific frequencies but usually whole ranges (bands) of different frequencies to operate on. These frequencies and methods of transmission are specified by FCC rules and so it is therefore necessary to be generally familiar with your operating limitations in order to transmit lawfully.

In order to qualify for an amateur radio license, you must pass certain tests to determine that you have the required knowledge. Fortunately, the tests are not terribly difficult for most people. There are three license levels (known as classes) where each class grants greater privileges to the individual. There is a single written test for each license class, and for the advanced classes, a simple 5 word-per-minute Morse code test. The license classes are:

- **Technician Class** - this is the entry level license. It gives privileges on all amateur frequencies above 50 Mhz and is the most popular. It requires only a written test.

- **General Class** - this is the mid-level license. It enables privileges on most amateur frequencies below 50 Mhz and includes global HF (shortwave) communications. This license also has a written test and a 5 word-per-minute Morse code test.

- **Extra Class** - this is the highest level license. It grants privileges on all amateur frequencies. It has its own written test and requires that you also have passed all of the Technician and General class written and Morse code tests.

Okay, so where do I start?

This part is easy. The first thing you should do is obtain the home study materials to prepare you for the test. These will give you the background that you'll need to understand the gist of what the tests are about. You can even order study materials online!

When you're ready to take the test, you should then locate the nearest license exam opportunity in your area. The ARRL website provides a **searchable index** where you can find the test session nearest you.

The W5YI-VEC also offers many testing opportunities. You can visit their website at:

<http://www.w5yi.org/vol-exam.htm>

That's it! It typically takes about 2 weeks for your new license to arrive in the mail and you're ready to go! In the meantime, you can look into local clubs and ham radio organizations to find out more about what's going on in your area.

License Study Materials

QRZ, in association with the W5YI-VEC, have made a comprehensive set of license exam study materials available.

(ed. -more information at <http://www.qrz.com/>)

BADGES

to order one contact

Don Trask KF6JMQ

at next PAARA meeting or kf6jmq@arrl.net

THANKSGIVING 2002

WORLD RADIO



THANKS FOR THE EXCELLENT SIGNAL REPORT, QM. THESE GUYS HAVE RIGGED ME A GOOD GROUND, BUT I COULD USE A LITTLE HELP!

QRP Software, *from New Jersey QRP Club*

WB2QAP's QRPPAL for Windows

We are proud to host WB2QAP's excellent QRPPAL program. This free QRP software will run under both Windows 3.1 and Windows 95 and can be downloaded directly from this web page!

The QRP Companion (for Windows) was written by Bruce Milne, WB2QAP. Several years ago he wrote a program called "Logger", which was used in ARCI contests as a dupe checker and contest logging program designed specifically for the ARCI contests.

The QRP Companion includes the original "Logger" program, along with versions for the NW-QRP, MI-QRP Club and Colorado QRP Club.*

The program also includes "modules", with information about ARCI awards, QRP clubs, QRP periodicals, kits/vendors, rig reviews, and other data bases for special purposes.

The program was introduced to the QRP community at the 1996 Dayton Hamvention, at the Four Days in May (FDIM) QRP symposium. Here's what noted reviewer, Bob Gobrick, VO1DRB, had to say about the program.

"Don't think this is just a 'Windows' version of his logger. It's that plus a logger program that covers QRP contests and ...MORE! The only way I can describe this program is that it's QRP Internet Web Site in a box. Bruce has modules covering rig review with photos, QRP WAS, WAC, DXCC, QRP-25 awards, QRP Club lists, QRP vendor lists, periodi-

cal listings, and much more QRP stuff. All user modifiable...QRP is pure shareware for the QRP community. Bruce did it because he liked doing it and hopes that others share it."

•**Note:** After this program was completed, I noticed that the Colorado QRP club contests require a first name to be exchanged in their contests. As a result of this requirement, the CQC version of Logger should not be used. You can contact Bruce WB2QAP at abmilne@hotmail.com

Installation notes:

This file is around 1.2 Meg in size and may take a while to download!! qrppal!.exe is a self-extracting archive. When you run qrppal! it will create two files in the current directory: qrppal.exe and setup.exe.

Copy these two files onto a floppy disk and install from the floppy. First run setup.exe. This will create setup31.bat, setup95.bat, readme.txt. Read the readme file. Run setup31.bat if you are using a Windows 3.1 system. Run setup95.bat if you are using a Windows95 system. These batch files will create a c:\qrppal directory and unpack the program files there. Run the program by typing:

qrppal.tkn<enter>

You can then delete the qrppal!.exe file if you want to.

NEW RADIO OPERATOR TRAINING SESSION

[NOTE: There are 2 different sessions -- sign up for one.]

WHAT: Training on: using your radio, emergency communications

WHO: Anyone with a FCC Amateur Radio license (or thinking of getting one)

Still need to get your license? One-day cram class coming up on Oct. 26,

see: <http://www.k6mpn.org/training/index.html>

SATURDAY 11/16 CLASS:

WHEN: Saturday, November 16, 2002; 9 am - 3 pm

WHERE: City of Los Altos Hillview Recreation Center Room A, 97 Hillview Ave, Los Altos.

BRING: Bring a bag lunch & your HT radio & its instruction book.

SUNDAY 11/17 CLASS:

WHEN: Sunday, November 17, 2002; 1 pm - 3 pm

WHERE: Menlo School, Stent Hall #211

50 Valparaiso Ave. (off El Camino Real)

Atherton, CA (map on www.menloschool.org)

BRING: Bring your HT radio & its instruction book

FEE: \$10.00 (pay at the door)

SIGN UP: Ken Dueker: kducker@w6yx.stanford.edu

NOTE: The classes are both designed for new radio operators. The difference?

The Saturday class is longer and spends more time on how to use the radio.

The Sunday class has more of a focus on emergency communications.

PLEASE NOTE IN YOUR E-MAIL WHICH SESSION YOU ARE SIGNING UP FOR.

HELP WANTED

**PAARA Treasurer, Bob Korte,
KD6KYT**

could use some help. Over time he has taken on duties beyond the normal responsibilities of his office. Most help needed would be seasonal such as Field Day or Flea Market. Some help could be monthly, such as meeting lottery and prizes, or enrolling new members and recording changes of member records. If you can help contact Bob or Andreas now.

Bob Korte, KD6KYT .(650) 595 1842

RGK4U@aol.com

Andreas Junge N6NU.....(650) 233 0843



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Join us for pre-meeting eyeball

QSO November 1st gab & gobble

Food will be served at 6:00 sharp, so guests will be on time for the PAARA meeting. Those arriving late will be responsible for their own order and bill.

6 pm— at Su Hong Restaurant

1039 El Camino Real

Menlo Park

—across from Kepler's Book Store—

PAARA Radio NET

every Monday evening

8:30 P.M., local time

on the

145.230 -600 MHz repeater

PL tone off

control operators

1st Mon KG6ILA, Pinkney Foster

2nd Mon N6NU, Andreas Junge

3rd Mon AD6FX, Jon Zweig

4th Mon AA6PA, Bill Rausch

5th Mon tba

PAARAgaphs Ad Rates

PAARAgaphs accepts paid advertisements from non-members
(short personal ads remain free for members in good standing).

All ad rates listed are per issue only.

1. Not for profit ads by association members for ham-related items and wants. No cost for business card size ads (additional space at \$2.50 per business card size).

2. For Profit organizations and/or individuals: \$5-business card size, \$25-half page, \$50 full page or back cover.

These fees may be reduced or waived in exchange for a valuable consideration that is given to the Association or its general membership. Such consideration must be in addition to any existing arrangements with the association.

The PAARAgaphs editors reserve the right to reject any ad deemed to be not in the best interest of the Association. All fees payable in advance by the year with "scanner-ready" copy or text-only ads. Give payment and copy to Bob Korte

PAARA • Palo Alto Amateur Radio Association • P.O. Box 911, Menlo Park, California 94026-0911

• Club meetings are on the first Friday of each month, 7:30pm at the Menlo Park Recreation Center, 700 Alma Street, Menlo Park, CA. •

• Radio NET every Monday evening, at 8:30pm, on the 145.230-600 MHz repeater, PL tone off. •

Membership in PAARA is \$12.00 per calendar year which includes a subscription to PAARAgaphs, \$6 for additional family members (no newsletter).


Make payment to the Palo Alto Amateur Radio Association.

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**APRS
TLC Features
Built In!**

TH-D7A 2M 40W

- 2M 443 Dual Band
- APRS Compatible
- Built-in 1200/950 Band INC.
- DX-Speak Cluster Memo
- 200 Memory CTSS
- Call-ID Messaging Enabled

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Visual Copying Unit

- Operatable w/all TM-VHF-UHF
- Transmitters • HI SSB
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- IC2 sections for download
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- 8 Color TFT LCD display
- Built-In Download to PC
- Download to PC
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TH-G7A 2m443

- 2m443 Dual Band HI
- 200 Memory • PC Programmable
- 6w 2W 3w UHF 21.3 VDC
- CTCSS Built-in • Extra Keyed

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TM-22AT

- Ultra Compact
- VHF-UHF 2W output
- 20 memories
- Transmitter Built-in

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- 50W 35W • 220 Memory • Visual Scan
- Alpha Numeric • Fax-Dex & Buckner Built-in
- Complete Programmable • 9000 baud ready
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TS-870S

HF Transceiver

- 150 W LF Stage • 100W • VFO DC
- Dual mode noise reduction
- Digital filtering to get there fast!
- Built-in RS232C Windows Software (PC)

TM-261A

2M Mobile

- 50W • Mid and low • Multi-Spot
- 61 Mem Channels • Alpha Numeric hunt-on
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- 50W HF 100W in PA TS-570DS only
- QSK CW Auto Lock & Auto-tune and RM
- 5000 Chk. CUD (only) and 10000 Chk. Negative
- 10000 Baud CW Rate

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TM-D7DDB 22W 443 Duplex

- 50W HF 35W UHF • 401 Voice Storage
- Receives 116.1-200 MHz (not included)
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TS-50S

HF Transceiver

- TS-50S • World's smallest HF trans
- QSK CW • 1000 Chk. CUD (only) and 10000 Chk. Negative
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- Not ext. ant. tunes available

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TMT-42AD 22W 443MHz

- Operation 3rd hand available • 5.5A in inc
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- 10000 Baud CW Rate

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